

007534964

WPI Acc No: 88-168896/198825

Anchor bolt fixing capsule - made of glass or ceramics treated by flaw or strain working to break up into fine parts

Patent Assignee: NIPPON DECK (NIDE-N); NIPPON DELCOLUXE KK (NIDE-N)

Inventor: KIMURA M

Number of Countries: 006 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 3740813	A	19880616	DE 3740813	A	19871202		198825 B
GB 2199627	A	19880713	GB 8728436	A	19871204		198828
FR 2607845	A	19880610	FR 8716852	A	19871204		198830
US 4894269	A	19900116	US 87127811	A	19871203		199010
JP 63217037	A	19880909					199026
JP 63142199	A	19880614					199027
JP 63142200	A	19880614					199027
GB 2234798	A	19910213	GB 9016536	A	19900727		199107
DE 3740813	C	19910425					199117
GB 2199627	B	19910731					199131
GB 2234798	B	19910731					199131
IT 1219821	B	19900524					199213
JP 93001857	B19930111	JP 86288938	A	19861205	E04B-001/41		199305

Priority Applications (No Type Date): JP 8746734 A 19870303; JP 86288938 A 19861205; JP 86288939 A 19861205

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
DE 3740813	A		8			
US 4894269	A		9			
JP 93001857	B		3	Based on		JP 63142199

Abstract (Basic): DE 3740813 A

Anchor bolts are fixed to structures of reinforced concrete by inserting a capsule in a drilled hole and breaking it up by driving in the anchor bolt. The capsule contains synthetic resin on the main component, and has a cap containing a hardener, mixed with an inorganic material and alidifying agent.

ADVANTAGE - The capsules are made of glass or ceramics and treated to break up into fine particles by flaw working or strain working.
0/10

Abstract (Equivalent): DE 3740813 C

A tubular cylindrical capsule (1), made of glass or a similar brittle material is partially filled with polyester resin a similar adhesive which reacts with a hardener substance. The hardener (3) is contained in a separate chamber (4), located at the trail-end of the capsule. After inserting the capsule into a blind masonry hole, an anchor bolt is driven into the capsule so that the capsule wall bursts and the two components (2,3) are mixed. ADVANTAGE- Simple twin chamber capsule for the two components of an adhesive provides easy reliable installation of anchor bolt in a blind hole.
(6pp)

Abstract (Equivalent): GB 2234798 B

A capsule for fixing an element to a structur said capsule comprising a container body filled with a hardenable main component and having a cap or receptacle containing a hardening agent, wherein said container body has been subjected to flaw and/or strain working.

GB 2199627 B

A capsule for securing an element to a structure, said capsule comprising a container ody containing a hardenable main component, and at least one cap sealing said container body, said cap comprising a hardening agent composition solidified by a solidifying agent.

Abstract (Equivalent): US 4894269 A

System for securely affixing an element in a recess in a structure comprises a frangible container fill with a material and shaped to fit in the recess and a second container filled with a second material

and cooperating with the first container to contain the first material.

When the containers are broken the materials react to form a prod.
for affixing the element. (9pp)

Derwent Class: A88; Q43; Q49; Q61

International Patent Cls (Main): E04B-001/41

International Patent Class (Additional): B65D-065/28; B65D-081/32;
C09J-007/02; E04B-001/40; E21D-020/00; F16B-013/14